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Sub: Average Physical Properties of Clear Acrylic Sheet

☒ Mechanical Properties:

| Typical Property | Test Method | Units | Value |
|-----------------------------|-------------|--------------------|--------|
| Specific Gravity | ASTM D-792 | | 1.19 |
| Tensile Strength | ASTM-638 | kg/cm ² | 690 |
| Elongation, Rupture | ASTM-638 | % | 4-6 |
| Modulus of Elasticity | ASTM-638 | kg/cm ² | 28,000 |
| Flexural Strength | ASTM D-790 | kg/cm ² | 1220 |
| Compressive Strength(Yield) | ASTM D-695 | kg/cm ² | 1170 |
| Impact Strength | ASTM D-256 | 1b/inch | 6.48 |
| Izod (Notched) | ASTM D-256 | ft-lbs/inch | 0.4 |
| Rockwell Hardness | ASTM D-785 | | M-97 |

☒ Optical Properties:

| Typical Property | Test Method | Units | Value |
|--------------------|-------------|-------|-------|
| Refractive Index | ASTM D-542 | | 1.49 |
| Light Transmission | ASTM D-1003 | % | 92 |

☒ Thermal Properties:

| Typical Property | Test Method | Value |
|--|-------------|---------------------|
| Forming Temperature | | Approx 150☒ (300☒) |
| Deflection Temperature Under load, 264 psi | ASTMD-648 | 95☒ |
| Internal Shrinkage | | 2.0-3.0% |
| Vicat Softening Point | ASTM S-1525 | 112☒ (223☒) |

| | | |
|--|------------|----------------------|
| Max Recommended Continuous Service Temperature | | 70°C (160°F) |
| Coefficient of Linear Thermal Expansion(-18°C to 38°C Ave) | ASTM D-696 | 0.000054cm / cm / °C |
| Flammability, Buring Rate (0.125" thickness) | D-635 | 25 mm / min |
| Self Ignition Temperature | D-1929 | 443°C |
| Specific Heat @77°F | | 0.35 (BTU/lb °F) |

⊙ Electrical Properties:

| Typical Property | Test Method | Units | Value |
|---|-------------|--------|----------------------|
| Dielectric Strength Shart Time (0.125") | D-149 | kv/cm | 160 |
| Dielectric Constant 60 Hertz 1,000 Hertz 1,000,000 Hertz | D-150 | | 3.3 3.0 2.7 |
| Power Factor 60 Hertz 1,000 Hertz 1,000,000 Hertz | D-150 | | 0.06 0.04 0.02 |
| Volume Resistivity | D-257 | Ohm-cm | 10 ¹⁶ |
| Surface Resistivity | D-257 | Ohm-cm | 10 ¹⁵ |

⊙ Others Properties:

| Typical Property | ASTM Test | Value |
|--------------------------------|-----------|-------|
| Water Absorption 24hrs at 73°F | D-570 | 0.3 |
| Odor | | None |
| Taste | | None |